



Certification of Added Wall Insulation R-Value

- To be Completed by Siding Contractor • Only to be Used When Project Includes New Siding
- All Appropriate Data Must be Supplied in the Applicable Blanks
- Responses Such As "Not Applicable" or "Unknown" Will Delay Loan Processing

FORM
2
SIDING

Loan Applicant Name			Siding Contractor/Business Name		Phone Number
Location or Address of Property to be Insulated			Mailing Address		
City	State	Zip Code	City	State	Zip Code

EXISTING WALL INSULATION

Construction: <input type="checkbox"/> wood/metal frame <input type="checkbox"/> masonry	Type of Existing Insulation	Thickness	Existing R-value
Description of Existing Exterior Siding			

NEW WALL INSULATION

1. NEW WALL CAVITY Insulation Type _____ Thickness _____ added R-value= _____
(Note: Add as much insulation as possible to wall cavities before installing exterior insulation board)

NEW EXTERIOR Insulation:

2. Air space (Thickness _____ supported by _____) added R-value= _____
(Example: 1" x 2" furring strip)

3. Insulation (Type _____ thickness _____ refl* _____) added R-value= _____
(0, 1 or 2)

4. Air space (Thickness _____ supported by _____) added R-value= _____
(Example: 1" x 2" furring strip)

5. Insulation (Type _____ thickness _____ refl* _____) added R-value= _____
(0, 1 or 2)

6. Air space (Thickness _____ supported by _____) added R-value= _____
(Example: 1" x 2" furring strip)

7. New siding (Describe _____) added R-value= _____

8. **TOTAL OF LINES 1 THROUGH 7 (Total R-value added to wall)** (A minimum of R-10.0 ADDITIONAL insulation is required for framed walls, or R-5.0 for masonry walls)

* refl = Number of Reflective Surfaces on the Insulation (Count only those surfaces which face a dead air space)

Materials and Installation Costs	Project Costs	Other Costs
9. Insulation materials and installation costs (Area= _____ sq. ft., omitting windows and doors)	9. \$	
10. Siding materials and installation costs (Area= _____ sq. ft., omitting windows and doors) If square foot area of siding exceeds square foot area of insulation on line 9, pro-rate siding costs between Project Costs column and Other Costs column	10.	\$
11. Frame wrap materials and installation costs for _____ windows and _____ doors	11.	
12. Shutters, gutters, downspouts, soffits, fascia and other trim materials and installation costs (Not eligible for program loan)	12.	\$
13. TOTAL OF LINES 9, 10, AND 11 (Enter here and on line 8, Form 2)	13. \$	

Signatures	Nebraska Energy Office Use Only
I hereby certify under penalty of perjury, that the information provided above is true, correct and complete.	
<div>sign here</div> <div>Signature of Loan Applicant</div> <div>Date</div>	
<div>Signature of Siding Contractor</div> <div>Date</div>	

SUBMIT THIS FORM ALONG WITH FORM 2 AND YOUR SIDING/INSULATION BID(S) TO A PARTICIPATING LENDER

Questions and Answers about Low-Interest Loans for Insulation and Siding (Form 2 SIDING)

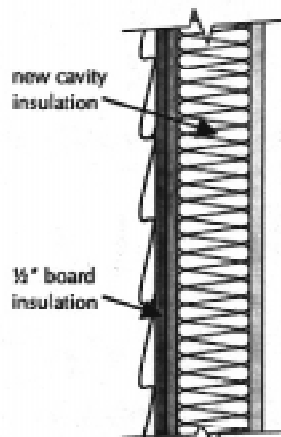
Q: Why is additional insulation required for siding projects?

A: Siding, by itself, has negligible insulating value. Even the foam backer that is often installed does not add much insulation. Since these low-interest loans are supposed to help borrowers reduce energy use, siding can only be justified when it is necessary to protect the integrity of new insulation. Pre-qualified wall insulation projects require adding R-10.0 to an existing frame wall or R-5.0 to a masonry wall.

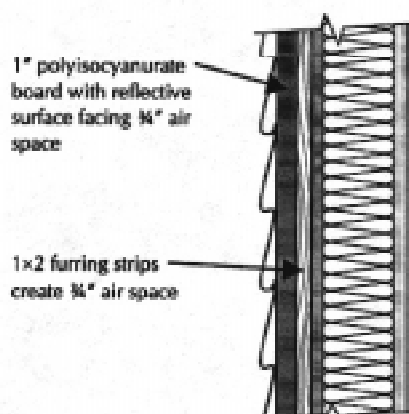
Q: How can the additional R-10.0 insulation be installed in a frame wall siding project?

A: Several ideas are presented below. These are only suggestions and you are free to modify them or design a completely different solution as long as the additional insulation requirement is met.

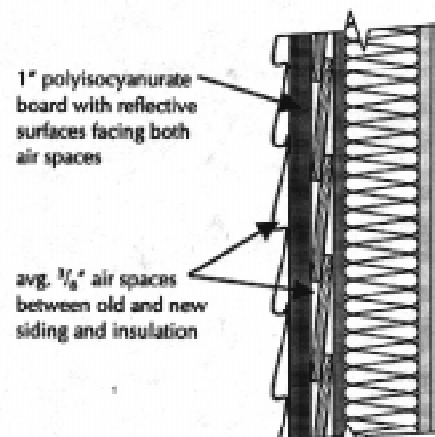
1. The easiest, cheapest way is to blow loose-fill insulation into the sidewall cavities. If the walls are currently uninsulated, this will add about R-11 to R-13. Then install $\frac{1}{2}$ " insulation board on the exterior (so that siding is necessary) and cover it with siding.



2. If the wall is already insulated, then the entire R-10.0 must be installed on the exterior. This can be accomplished with polyisocyanurate* board insulation, which has an R-value of 7.2 per inch. The system R-value, including a reflective foil face and a $\frac{3}{4}$ " closed air space is 10.0. You can achieve the system R-value by removing the old siding, installing 1x2 furring strips and attaching the insulating board with the foil facing toward the closed air space.



3. The Energy Office also allows the $\frac{3}{4}$ " air space to be split between the front and back of the insulation. This can be accomplished with insulating board that has foil on both sides. The board is installed over existing lap siding so that air spaces are trapped between the old siding and the insulation and between the insulation and the new lap siding.



Q: Does anybody make sure my competitor is installing the insulation claimed on Form 2 SIDING?

A: Lenders verify project completion through physical inspection or paid invoices. In addition, Energy Office personnel inspect 10-15% of projects — more if there is reason to believe someone is cheating.

Q: Isn't there some way to justify a siding project without adding so much insulation?

A: The specific additional R-value is only required for pre-qualified wall insulation projects (Form 2, Lines 8 and 9). Borrowers always have the option of using an energy audit (Forms 32 and 33) to show that any project qualifies for low-interest financing. In the case of siding (with any amount of insulation), the calculations would have to show that the entire project cost could be repaid by energy savings within 15.0 years.

* manufactured by Celotex (Tuff-R), Firestone (ISO-R) and possibly others. This information is for reference only, and does not imply any endorsement of these products or companies by the Energy Office. Other foam board products may also be used but may require thicker applications because the specific materials have a lower R-value per inch.